ph

Notice of Allowability	Application No.	Applicant(s)
	09/931,544	RAPP, LUTZ
	Examiner	Art Unit
	Stephen C. Cunningham	3663
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS ( herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicati GHTS. This application is subjec and MPEP 1308.	a correspondence address application. If not included
1. This communication is responsive to <u>paper submitted 02/02</u>	<u>2/2004</u> .	
2. ⊠ The allowed claim(s) is/are <u>1-11</u> .		
3. $igotimes$ The drawings filed on $\underline{05/19/2003}$ are accepted by the Exar	niner.	
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority unital all all block opies of the priority documents have all all block opies of the priority documents have all copies of the certified copies of the priority documents have all copies of the certified copies of the priority documents have all copies of the certified copies of the priority documents have all copies of the certified copies of the priority documents have all copies of the certified copies of the priority documents have all copies of the priority documents have application number (see submit interest all copies of the priority documents have all copies of the priority d</li></ul>	been received. been received in Application No. uments have been received in th  of this communication to file a rep ENT of this application.  Ited. Note the attached EXAMINE is reason(s) why the oath or declar be submitted. on's Patent Drawing Review ( PTO Amendment / Comment or in the  Office of the property of the	is national stage application from the  Ity complying with the requirements  ER'S AMENDMENT or NOTICE OF tration is deficient.  O-948) attached  Office action of  vings in the front (not the back) of 1(d).
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summar Paper No./Mail D ), 7. ☐ Examiner's Amend	ate

Application/Control Number: 09/931,544

Art Unit: 3663

## **DETAILED ACTION**

## Allowable Subject Matter

Claims 1-11 are allowed.

The following is an examiner's statement of reasons for allowance: The instant invention teaches a method, in claims 1-10, for compensating signal changes of a plurality of single signals forming an optical wavelength division multiplex signal caused by cross phase modulation in a fiber amplifier comprising the limitation *generating a control signal from the part of said optical wavelength-division multiplex signal, said control signal controlling a phase modulator*. The nearest prior art reference is Tsushima (JP 06132895 A) (hereafter "Tsushima") which teaches a device which generates a control single supplied to a drive circuit which drives a laser which is synthesized with the input optical signal in order to compensate for cross phase modulation in the input optical signal. Tsushima fails to disclose a phase modulator used to correct for cross phase modulation.

In the case of claim 11, the instant application claims limitations comprising:

a measurement coupler that couples out a part of the entire wavelength-division multiplex signal as an optical measurement signal wherein the coupled out portion of the optical wavelength-division multiplex signal contains a portion of each wavelength of the optical wavelength-division multiplex signal;

an opto-electrical converter that converts the optical measurement signal into an electrical measurement signal;

Application/Control Number: 09/931,544

Art Unit: 3663

an electrical amplifier that has an input supplied by said electrical measurement signal and an output that is an amplified measurement signal as a control signal. These limitations are considered a species of the genus method for generating a control signal and are therefor patentable when the genus is patentable.

Page 3

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen C. Cunningham whose telephone number is 703-605-4275. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on 703-306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shomas D. Janes

THOMAS H. TARCZA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600

5 C